# Addendum to the Biological Assessment (October 2015)

# **Centennial Corridor Project**

Project ID: 0600000484 SCH ID: 2008091102

#### PURPOSE OF THE TECHNICAL MEMORANDUM

This Addendum to the Biological Assessment was prepared after circulation of the Draft Environmental Impact Report/Environmental Impact Statement (DEIR/EIS) for the Centennial Corridor Project (May 2014) to address changes in, or pertaining to, any of the following: comments received; design refinements; regulatory setting; affected environment; environmental consequences; or avoidance, minimization, and mitigation measures.

#### **CHANGE IN PROJECT DESIGN**

Many public comments on the DEIR/EIS requested that design modifications be incorporated into the proposed project. The following refinements provide benefits or otherwise improve the project, and they do not result in additional or new impacts not previously described and analyzed in the DEIR/EIS.

# **Kaiser Realignment**

During the public circulation period of the draft environmental document, Caltrans and the city of Bakersfield received a letter on behalf of Kaiser Foundation Health Plan, Inc. (Kaiser), dated July 7, 2014, describing various concerns in regard to the proposed Centennial Corridor Project. Due to these concerns, preliminary design plans for Alternative B were modified to avoid direct impacts to the Kaiser Health Care Center. The preliminary design revisions that would avoid impacts on the Kaiser medical offices are depicted in Attachment 1 of this Addendum. These revisions would significantly increase the distances between the Kaiser facility and the project improvements, creating an 80-foot buffer between the medical facility's parking lot and the proposed alignment. No obstructions associated with the Centennial Corridor Project will block Kaiser Health Care Center driveways, and no modifications would be made to change the configuration of the existing driveways. In addition, the modified design will not require property or temporary construction easements on Kaiser's property.

Additionally, as a response to Kaiser's comments on the draft environmental document, additional noise mitigation measures may be incorporated by Caltrans and the construction contractor if they are deemed practicable and reasonable. These additional construction abatement measures include the use of temporary noise barriers, outdoor sound curtains or sound

curtain noise barriers. These measures typically reduce equipment noise levels from 15 to 22 dBA.

# **Carrier Canal Crossing**

To address concerns regarding bicycle and pedestrian connectivity, preliminary design plans for Alternative B were revised to include a multi-use pathway that will run parallel to the project alignment connecting bicyclists and pedestrians from California Avenue to Commerce Drive. The decision to incorporate a multi-use pathway to accommodate a bicycle and pedestrian connection was made in response to public comments requesting a bicycle connection spanning over the Carrier Canal. As part of this change, an approximately 100-foot-long-bridge over the Carrier Canal would be constructed to accommodate bicycles and pedestrians. The bridge would be of sufficient width to accommodate two-way pedestrian and bicycle traffic. The preliminary design layout for the Carrier Canal Crossing is included in Attachment 2 of this Addendum. The proposed modification is located within the study area analyzed in the draft environmental document and supporting technical studies. This multi-use pathway and bridge structure will provide direct connectivity to the Kern River Parkway Bike Trail for its users.

# **Pacific Gas and Electric Towers**

The Preferred Alternative B alignment originally proposed to relocate six Pacific Gas and Electric transmission towers within the general area of Truxtun Avenue/Westside Parkway; however, after circulation of the environmental document the relocation of these towers was identified as a project activity in the previously approved *Final Westside Parkway Environmental Assessment/Environmental Impact Report* (2007) to accommodate the construction of the Westside Parkway Project. The relocation of the Pacific Gas and Electric transmission towers were not relocated to their ultimate location as stated in the city of Bakersfield's General Plan. These tower relocations would be coordinated with Pacific Gas and Electric in compliance with applicable Public Utilities Commission regulations.

# **Air Quality**

To address localized increases in particulate matter along the Preferred Alternative B alignment, Caltrans has entered into a Voluntary Emission Reduction Agreement with the San Joaquin Valley Air Pollution Control District to provide betterments to local air quality within the project area. This agreement would provide additional localized particulate matter reductions. See Appendix L of the final environmental document for more details on the Voluntary Emission Reduction Agreement.

The San Joaquin Valley Air Pollution Control District's Voluntary Emissions Reduction Program is a grant/incentive program. The \$1.5 million dollars provided by Caltrans to the San Joaquin Valley Air Pollution Control District to fund this Voluntary Emission Reduction Agreement will be used to award funds to businesses, residents, and municipalities to generate real and quantifiable reductions in emissions for the Bakersfield area and the Central Valley. Participation by Bakersfield residents is voluntary and is available to residents living within a certain distance of the project alignment. The following are some examples of how these funds may be utilized to reduce air pollution:

- Grants to residents to purchase cleaner vehicles through the San Joaquin Valley Air Pollution Control District's Drive Clean Rebate Program.
- Grants to residents through the San Joaquin Valley Air Pollution Control District's Tune-In Tune-Up program to repair older high-polluting vehicles.
- Grants to residents to replace fireplaces and noncertified wood-burning stoves with clean-burning U.S. Environmental Protection Agency-certified units through the District's Burn Cleaner Incentive Program.
- Grants to convert electricity or replace existing diesel-powered off-road equipment through the San Joaquin Valley Air Pollution Control District's Heavy-Duty Engine Program.
- Grants to replace old trucks with new low-emissions trucks through the San Joaquin Valley Air Pollution Control District's Truck Voucher Program.
- Grants to replace older and high-polluting school buses through the San Joaquin Valley Air Pollution Control District's School Bus Replacement Program. This would be provided for buses that operate within the Preferred Alternative B alignment.
- Grants to upgrade heating, ventilation, air conditioning (HVAC) systems to qualifying daycare centers, preschools, and schools, to provide improvements to reduce indoor air particles related to negative health effects such as exacerbating the symptoms of asthma.

The emissions reductions secured through Voluntary Emission Reduction Agreements are supplementary to existing regulations, achieving reductions earlier or beyond those required by regulations. Over the years, the San Joaquin Valley Air Pollution Control District has built a reputation for excellence in the implementation of these programs, as highlighted in multiple audits by state agencies that lauded the San Joaquin Valley Air Pollution Control District's incentive programs for their efficiency and effectiveness. Historically, the San

Joaquin Valley Air Pollution Control District's incentive programs have invested over \$1 billion in public and private funding for clean air projects by reducing more than 100,000 tons of emissions. With the programs listed above offered to residents near the project alignment, reduction in construction emissions within the project area would be reduced by the following in three years:

- Year 1 1.9 tons of reactive organic gas/33.6 tons of nitrogen oxide/7.6 tons of coarse particulate matter (PM<sub>10</sub>)
- Year 2 1.45 tons of reactive organic gas/16.5 tons of nitrogen oxide/7.3 tons of coarse particulate matter ( $PM_{10}$ )
- Year 3-0.4 ton of reactive organic gas/2.55 tons of nitrogen oxide/0.7 tons of coarse particulate matter (PM<sub>10</sub>)

It should be noted that the reductions mentioned above would be implemented mainly within the Year 1 timeframe, and the reductions will carry over to future years, well beyond the construction years.

With implementation of the Voluntary Emission Reduction Agreement programs listed above, the project area will experience operational emission reductions of:

- 5 tons of reactive organic gas
- 73 tons of nitrogen oxide
- 5 tons of coarse particulate matter (PM<sub>10</sub>)

These emission reductions will be achieved throughout the 20-year design life of the project.

In addition to the Voluntary Emission Reduction Agreement, the Centennial Corridor Project would provide a one-time \$200,000 grant to a non-profit organization to plant trees along the Preferred Alternative B alignment. This organization may plant trees at the resident's property. Initially, trees will be offered to environmental justice communities living within 1,000 feet of either side of the new freeway (first priority), and secondly, properties within 500 feet of each side of the Alternative B alignment. If trees are available after the primary and secondary targeted areas, trees would be offered to property owners within 1,500 feet of each side of the alignment. If trees are still available, they may be planted at other locations in consultation with and approved by the city of Bakersfield. Planting and maintenance of the trees would be the responsibility of those accepting the trees.

The Voluntary Emission Reduction Agreement is provided in Appendix L of the final environmental document.

## Joseph Drive Pedestrian Sidewalk

Implementation of the Centennial Corridor Project will result in the permanent closure of 11 local streets, which in some cases greatly lengthens the routes for current pedestrian routes in the Westpark neighborhood. The city of Bakersfield will coordinate with Caltrans to install a dedicated new pedestrian sidewalk for the benefit of residents living in homes south of La Mirada Drive and Joseph Drive. The pedestrian sidewalk would enhance connectivity to newly divided areas in the Westpark neighborhood and shorten the route for pedestrians to access popular community facilities located on either side of the freeway, including Centennial Park, Harris Elementary school, and other neighborhood destinations. This proposed feature would upgrade bicyclist and pedestrian access via La Mirada Drive. The preliminary design layout for the Joseph Drive pedestrian crosswalk is included in Attachment 3 of this Addendum.

#### **CHANGE IN REGULATORY SETTING**

Since circulation of the DEIR/EIS in May 2014, the western yellow-billed cuckoo (*Coccyzus americanus occidentalis*) has been listed as federally threatened. This species is not expected to occur in the biological study area due to lack of suitable habitat. The western yellow-billed cuckoo was evaluated in project documentation (i.e., DEIR/EIS and Natural Environment Study), but it was not included in the Biological Assessment because it was not federally listed at the time that the Biological Assessment was prepared.

### **CHANGE IN AFFECTED ENVIRONMENT**

No changes to the environmental setting related to biological resources in the project study area have occurred since circulation of the DEIR/EIS in May 2014.

#### CHANGE IN ENVIRONMENTAL CONSEQUENCES

The Biological Assessment was submitted to the U.S. Fish and Wildlife Service (USFWS) on April 16, 2013, and formal consultation was initiated on July 22, 2013. A Biological Opinion from USFWS on the effects on the San Joaquin kit fox was issued on December 20, 2013. Consultation was reinitiated and a Biological Opinion (08ESMF00-2013-F-0373-R001) to include sound walls as part of the project description.

No substantial changes in impacts to biological resources will occur as a result of the design modifications stated in the Change in Project Design section of this Addendum. The analysis conducted; findings and conclusions; and mitigation measures included in the Biological Assessment are still valid with inclusion of the project design modifications.

## CHANGE TO AVOIDANCE, MINIMIZATION, AND MITIGATION MEASURES

Per the amended Biological Opinion provided by USFWS Biological Opinion (08ESMF00-2013-F-0373-R001, dated February 24, 2015), additional construction measures pertaining to San Joaquin kit fox are to be incorporated to the project. The following is proposed to minimize effects to the San Joaquin kit fox from the installation of k-rail on-site:

Caltrans will install modified k-rail barriers that facilitate San Joaquin kit fox movement and passage across the roadways. Openings in the barriers will be spaced every seven segments of k-rail; segments are 20-ft. long, so intervals will be spaced approximately every 140-150 feet. One, or a combination of the following, of two design options will be implemented. Designs include:

- A Modified Type K segment may include a minimum 8-inch diameter hole case or bored into a typical rail segment.
- A Type L passageway that off-sets a segment of k-rail via a gap measuring between 8inches and 5-feet.

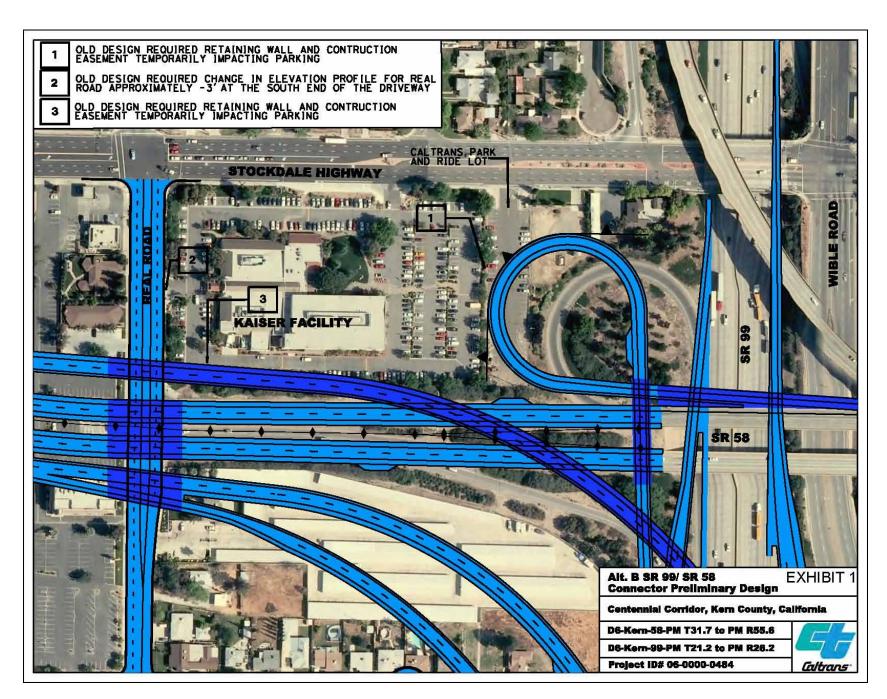
The Biological Opinion was amended by USFWS on July 30, 2015, which removed the requirement to install modified k-rail barriers on State Route 58 from post mile R52.3 to post mile R55.4 and on State Route 99 from post mile 22.1 to post mile 22.7.

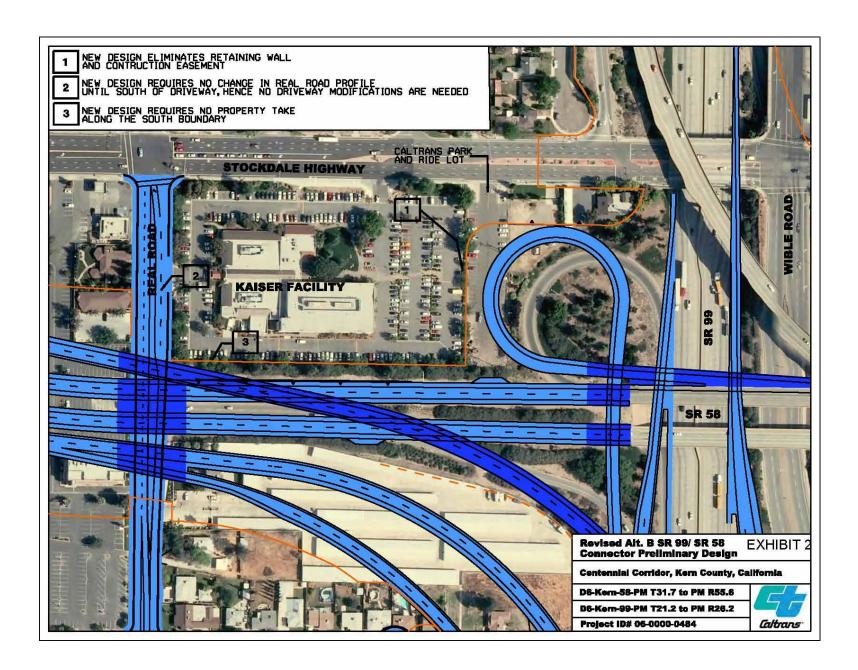
Caltrans acknowledges that the aforementioned designs are only temporary solutions for addressing the issues of roadway permeability and wildlife passage; over the long-term. Caltrans will commit to conducting crash-test and safety studies on alternative design options in order to provide the most effective solutions for addressing San Joaquin kit fox movement across the roadscape.

#### PREPARER/REVIEWER

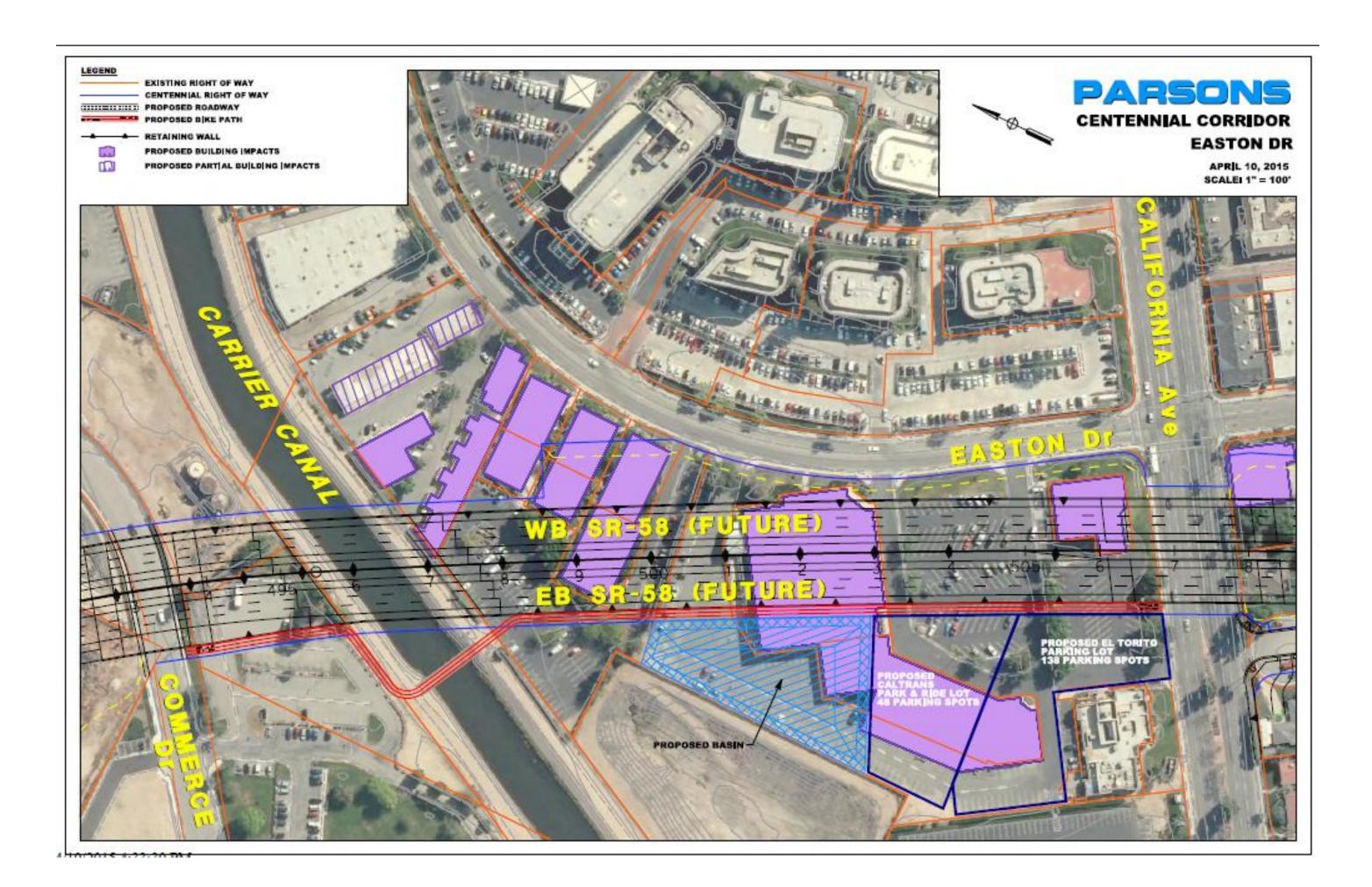
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# Attachment 1 Kaiser Realignment





# Attachment 2 Carrier Canal Crossing Design Modification



# Attachment 3 Joseph Drive Pedestrian Crossing

